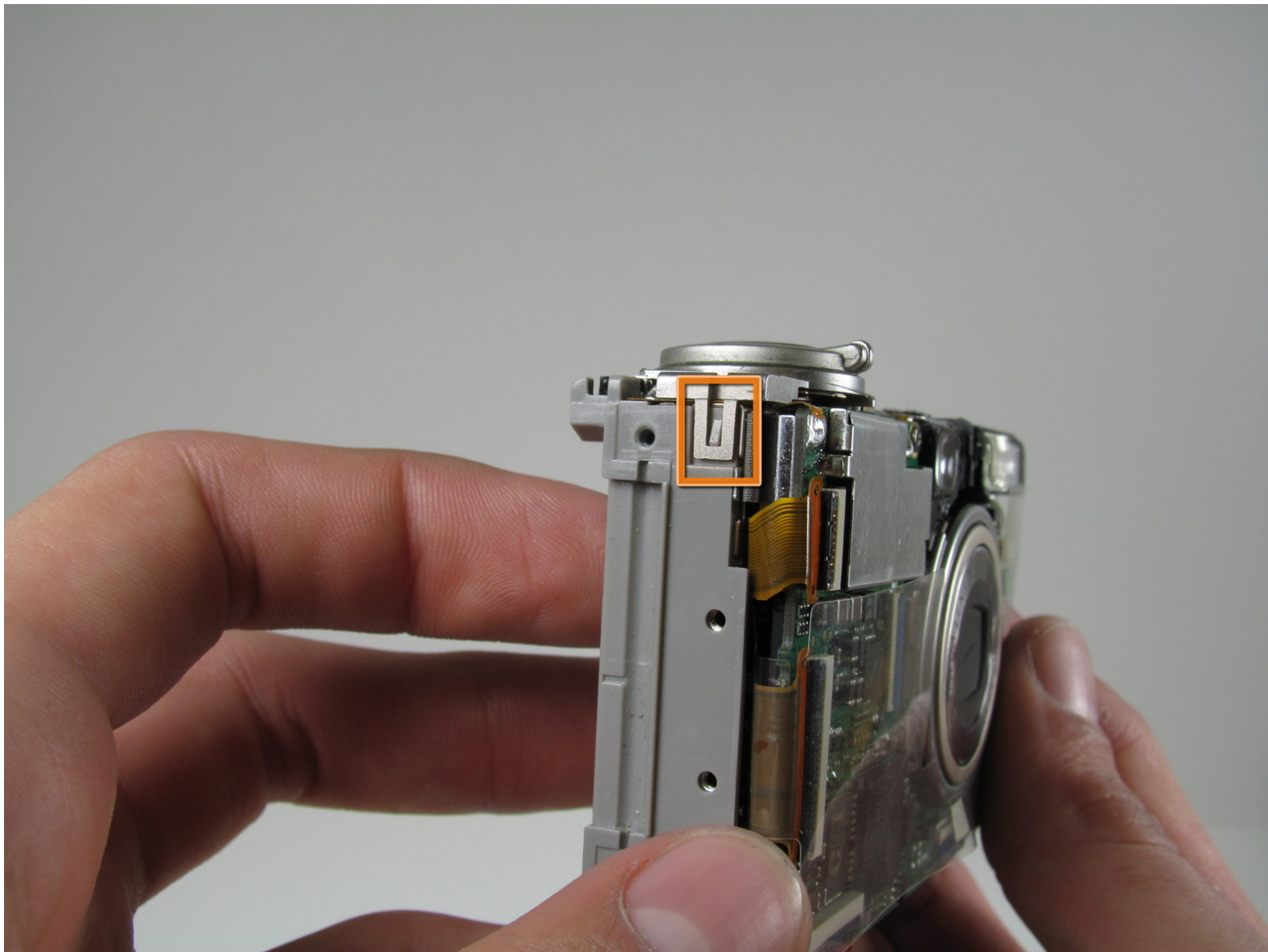




Canon PowerShot S500 Logic Board Replacement

Written By: Nathan Balcom



INTRODUCTION

This is a guide to removing the camera's logic board.



TOOLS:

- [Phillips #0 Screwdriver](#) (1)
 - [Solder](#) (1)
 - [Soldering Station](#) (1)
 - [Spudger](#) (1)
 - [Tweezers](#) (1)
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Step 1 — Front and Rear Casing



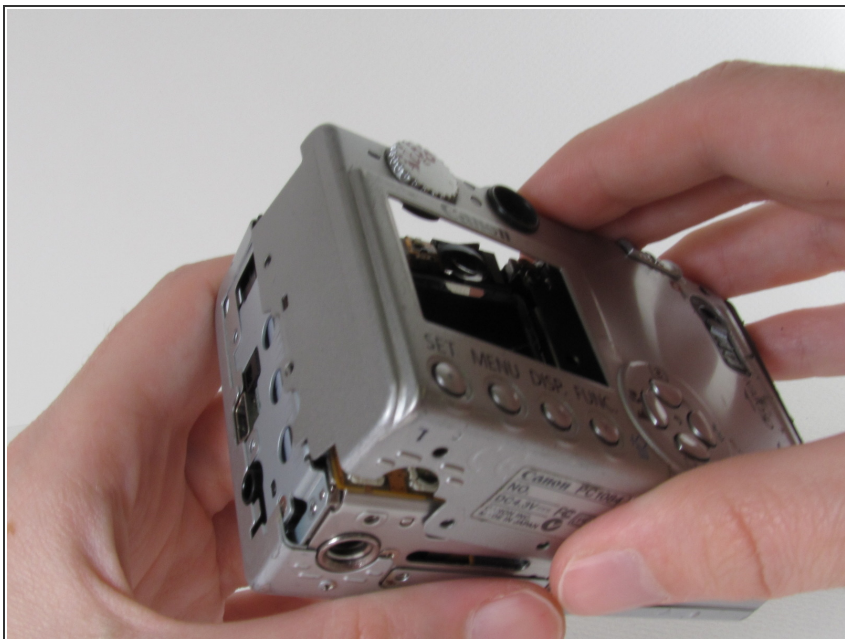
- Unscrew five Phillips screws using a #0 Phillips screwdriver.
- ❗ One screw is on upper right corner of the back panel.
- ❗ The other four screws are on the bottom of the camera.

Step 2



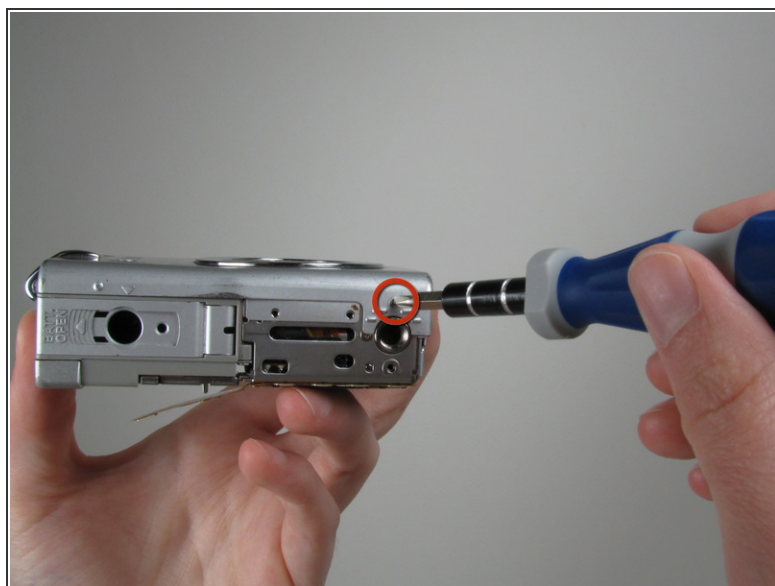
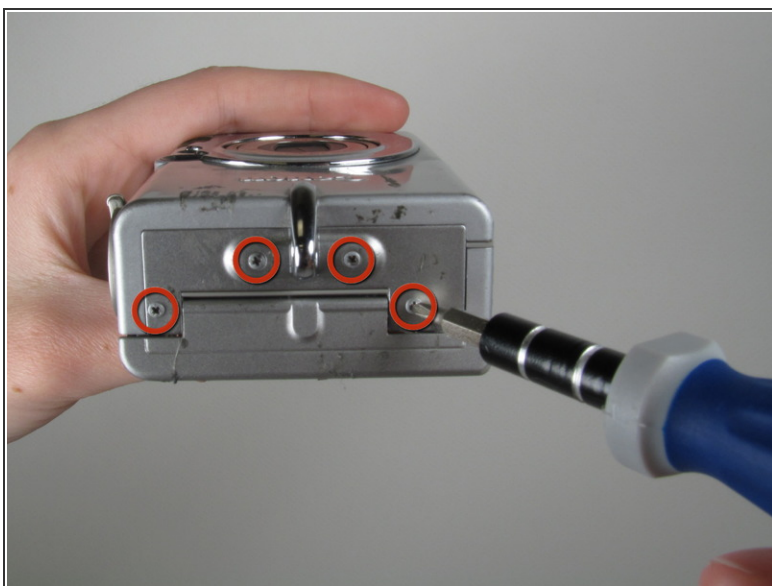
- Open memory card cover by moving the slide switch toward the top end of of the camera.
- Remove the memory card from the slot.

Step 3



- Remove the rear cover from the rest of the camera.
- ⓘ This may require gentle rocking of the case to free it.

Step 4



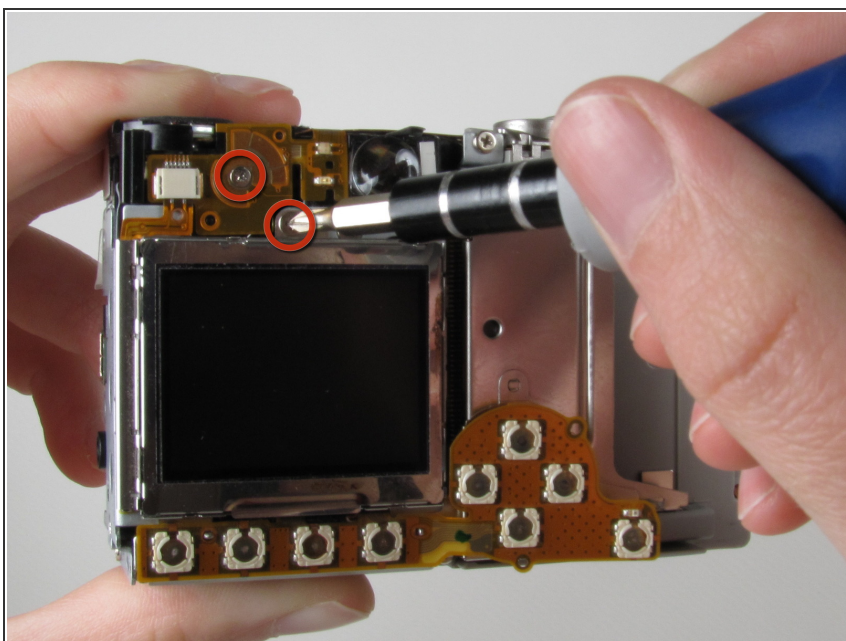
- Unscrew the four Philips screws from the side of the casing and one screw from the bottom using a #0 Phillips screwdriver.

Step 5



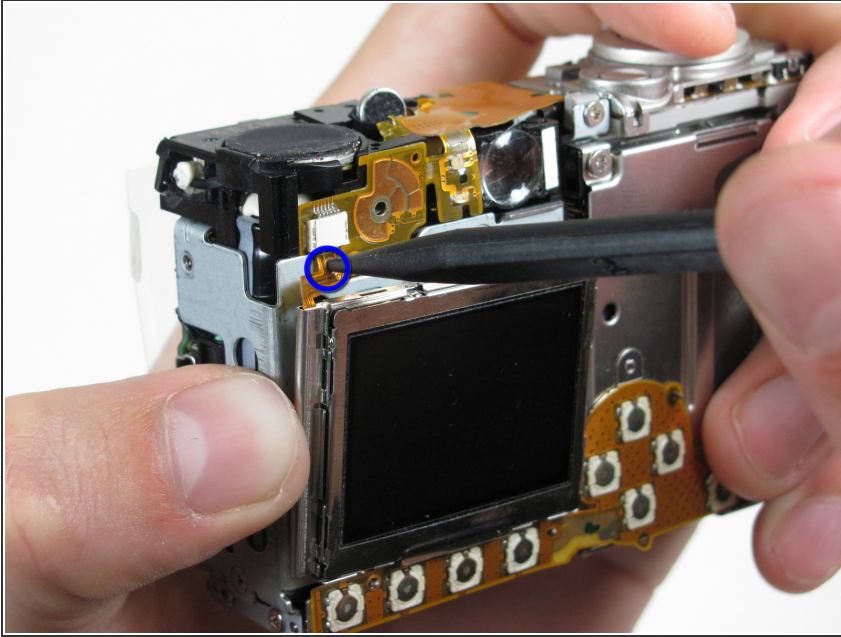
- Free the front cover from the rest of the camera.
- ⓘ The cover may require gentle rocking to remove.

Step 6 — LCD



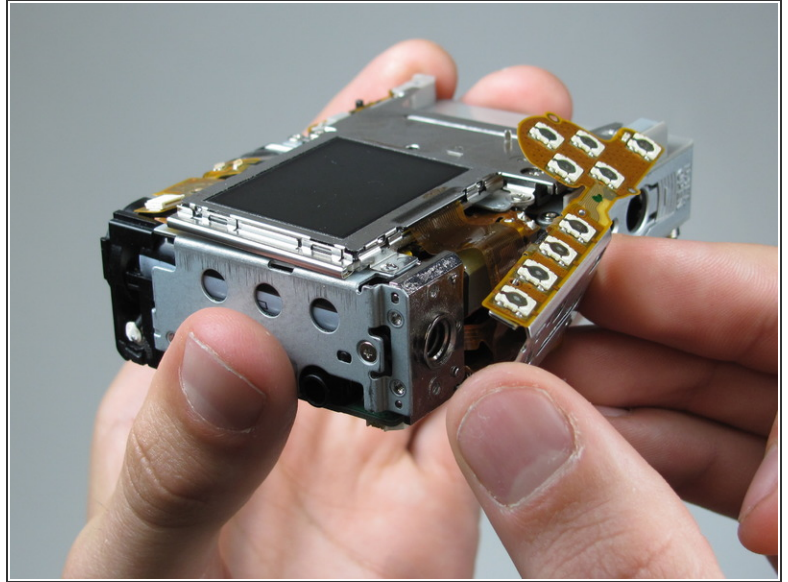
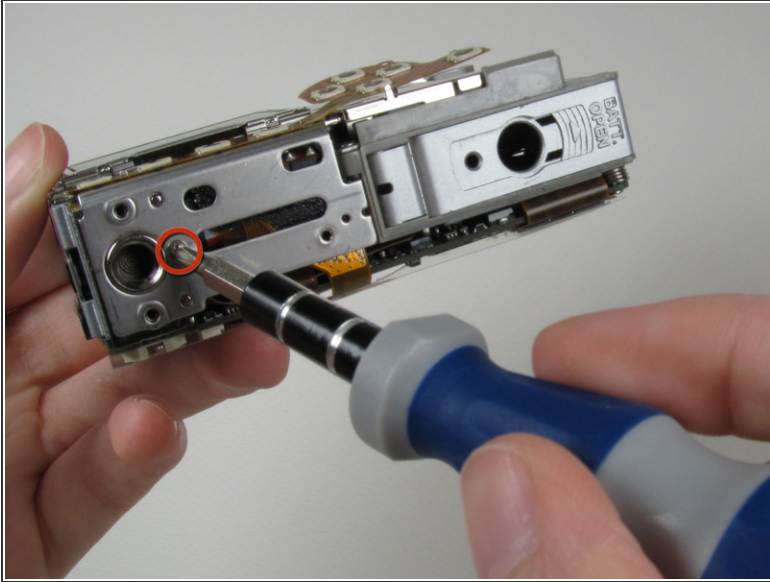
- Unscrew two Phillips screws above the LCD using a #0 Phillips screwdriver.

Step 7



- Gently separate the top of LCD from the rest of the camera using your thumb.
- ⚠ Be careful not pull the LCD too far because of the ribbon cable connection.
- Place the Spudger in the hole of the electrical ribbon.
- Gently pull the ribbon down using the Spudger until it is free from the camera but still connected to the LCD.
- ⓘ The LCD will still be connected to the rest of the camera

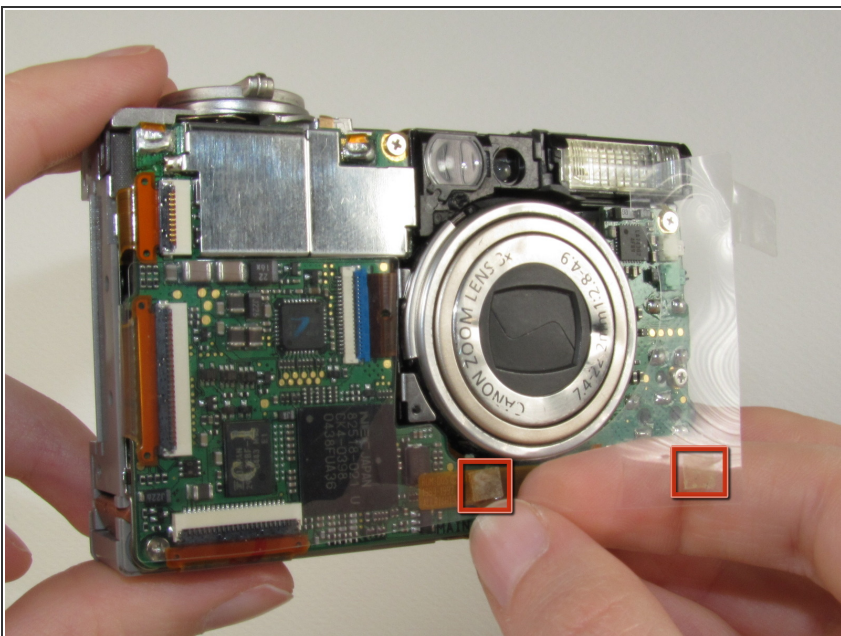
Step 8



- Unscrew single Phillips screw with a #0 Phillips screwdriver.
- Free the bottom panel and attached ribbon from the rest of the camera.

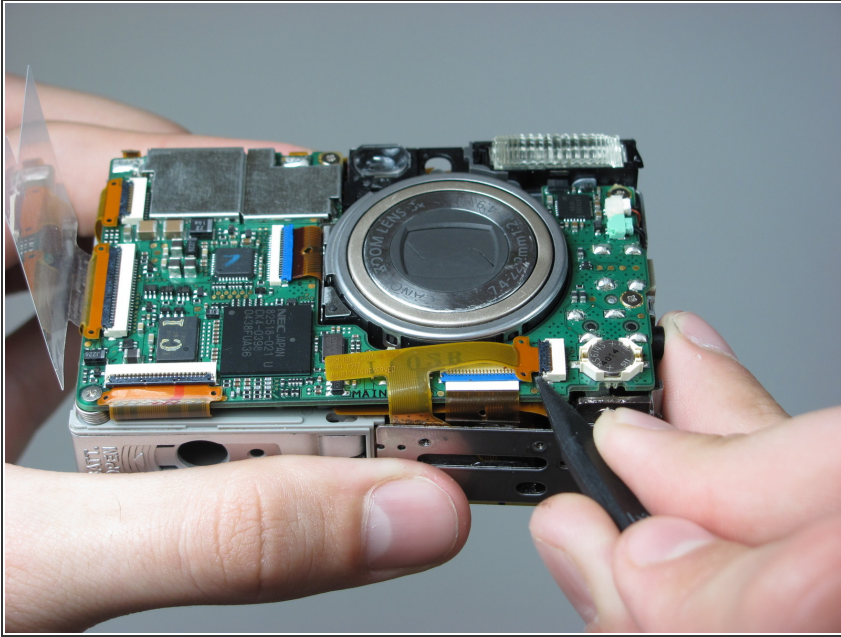
⚠ Be careful not to damage the ribbon.

Step 9



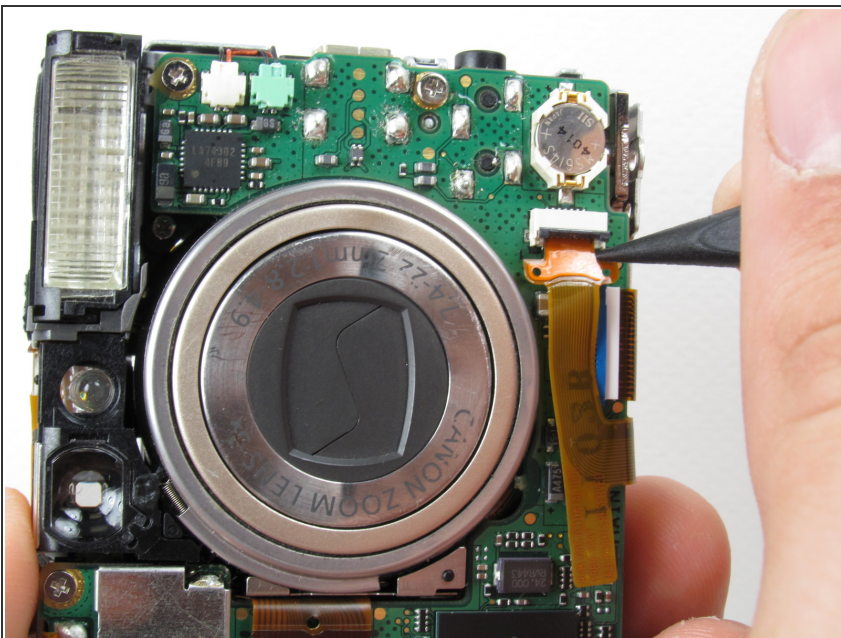
- Turn over the camera.
- Lift the clear plastic from the face of the camera, peeling the adhesive just below the zoom lens.
- ⓘ The plastic will still be connected on the left side.

Step 10



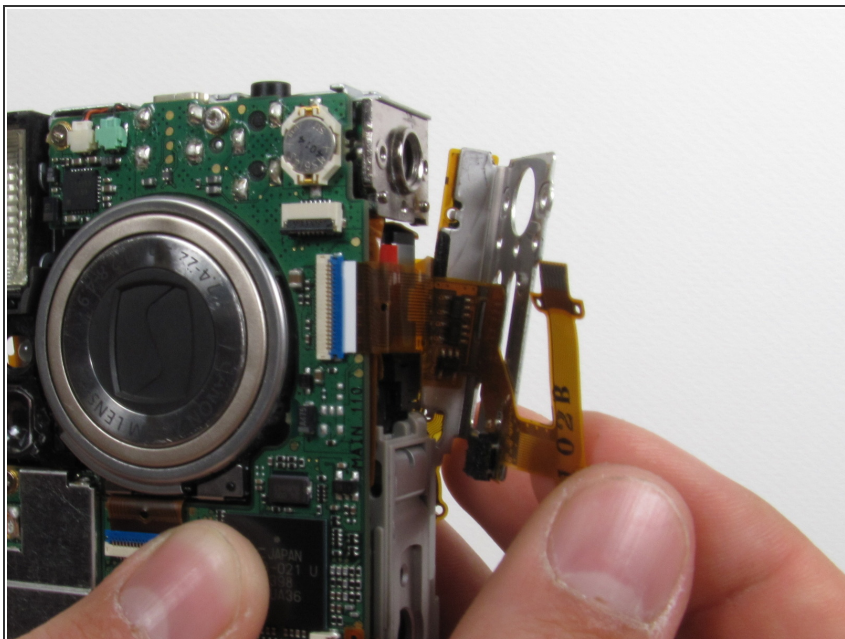
- Place the Spudger between the orange ribbon and the black ribbon gate.
- Lift the ribbon gate using the Spudger.

Step 11



- Place the Spudger in the corner of the ribbon above the hole.
- Remove the ribbon from the ribbon gate by pulling the Spudger away from the gate.

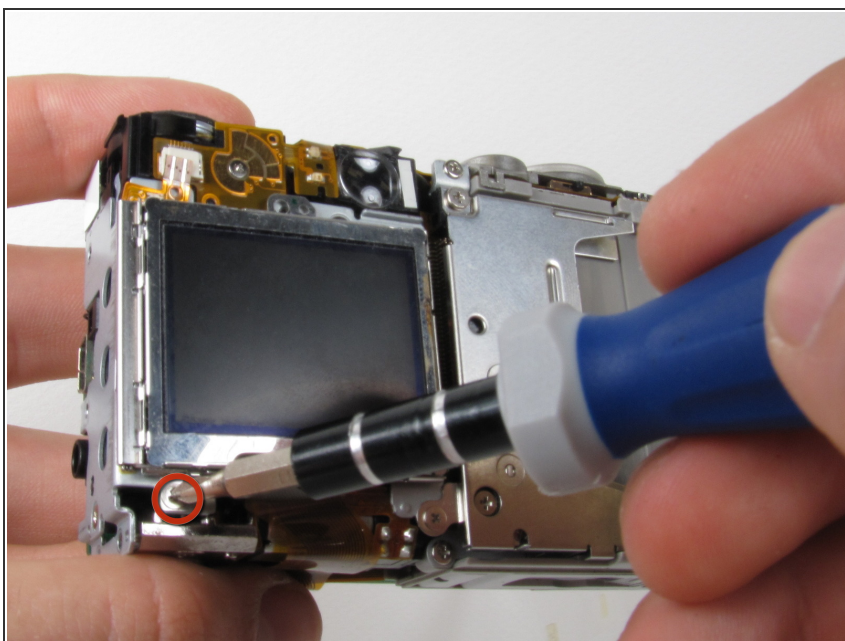
Step 12



- Free this ribbon and the bottom panel from the rest of the camera.

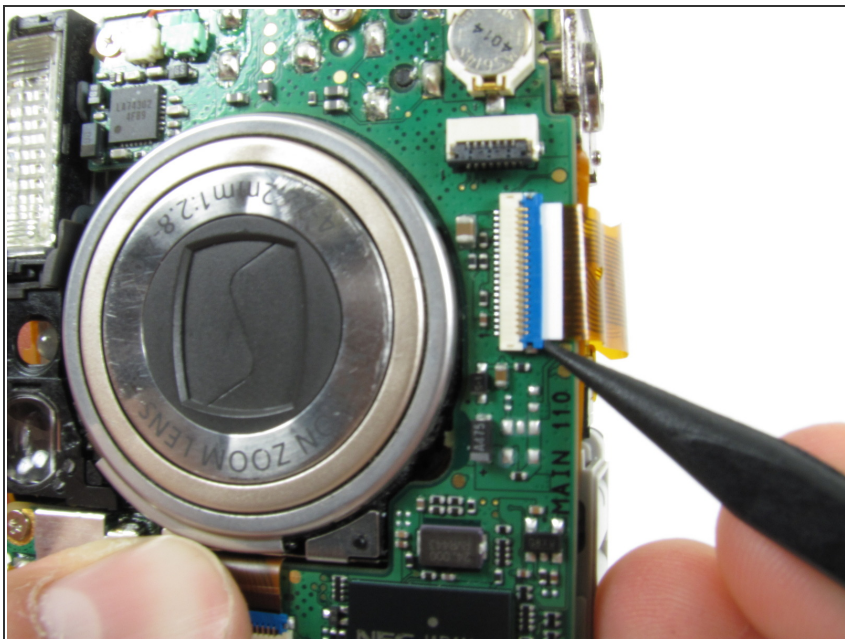
⚠ Be careful not to damage the ribbon.

Step 13



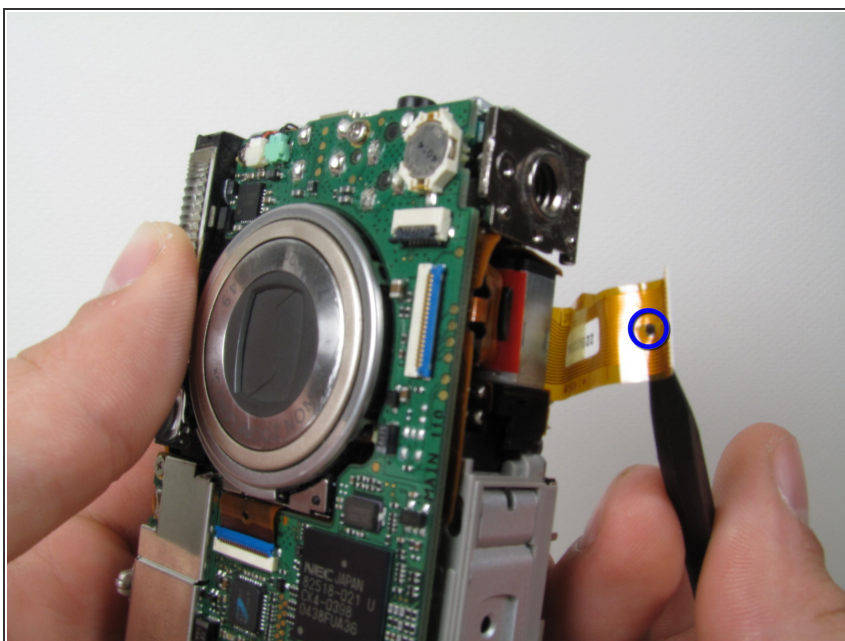
- Turn the camera over so you can see the LCD.
- Remove single Phillips screw below the LCD using a #0 Phillips screwdriver.

Step 14



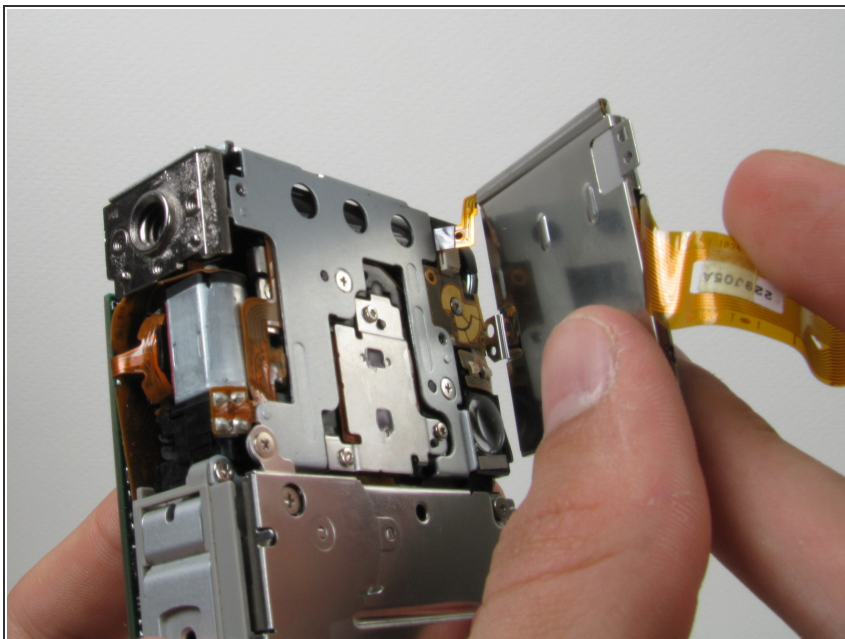
- Lift the blue ribbon gate using the Spudger.

Step 15



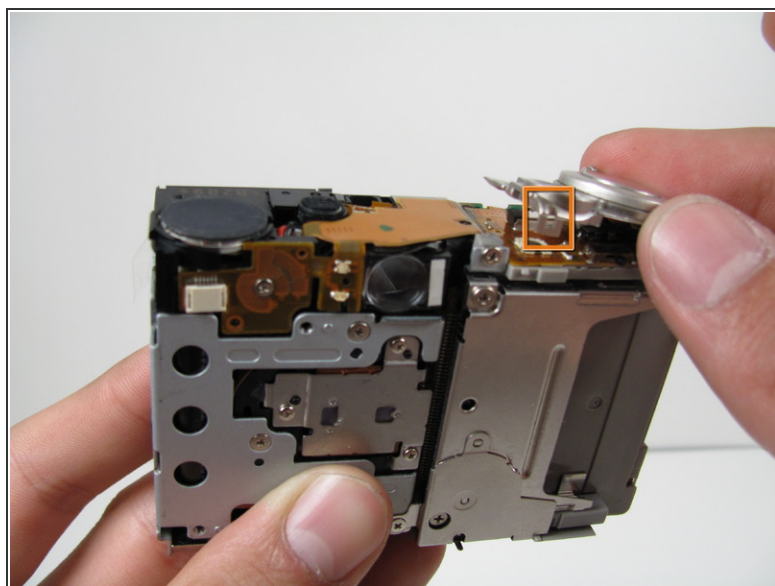
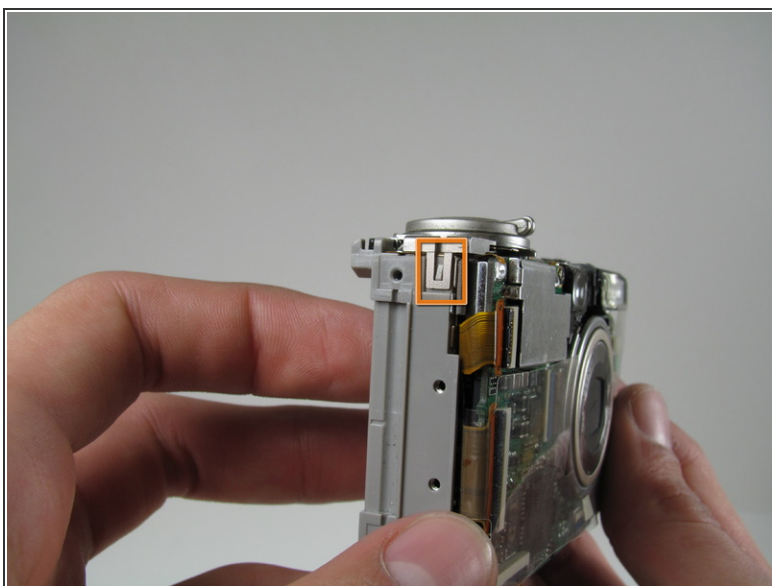
- Insert the Spudger into the hole of the ribbon.
 - Move the Spudger away from the gate to fully remove ribbon.
- ⚠ Be careful not to damage the ribbon.

Step 16



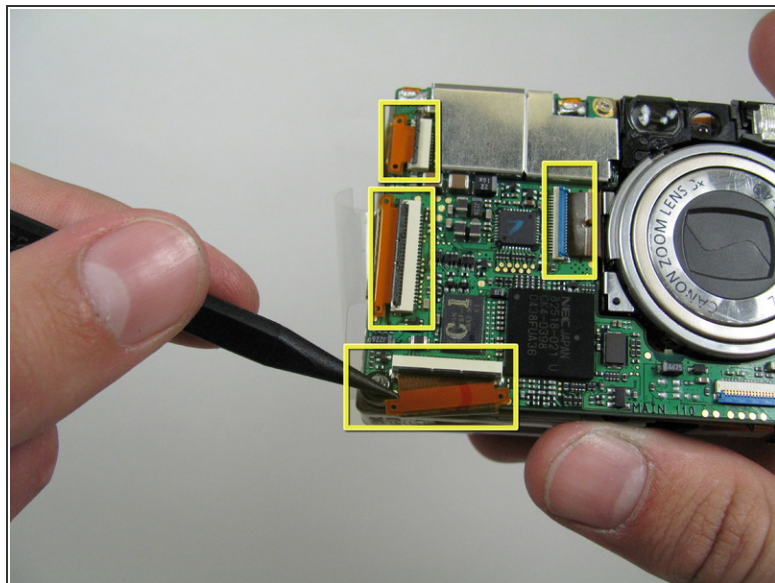
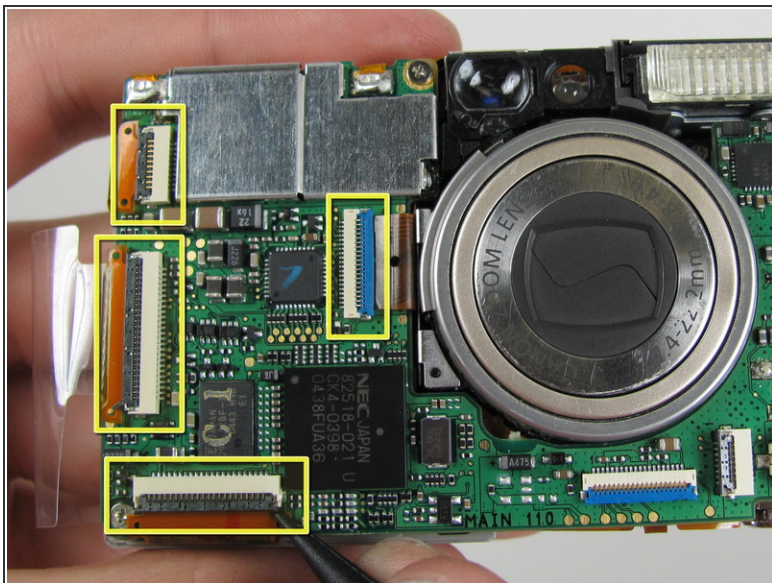
- Lift the LCD away from the rest of the camera.

Step 17 — Logic Board



- Lift off the capture button by wiggling it back and forth while pulling upward.
- Be careful not to damage the two clips.

Step 18



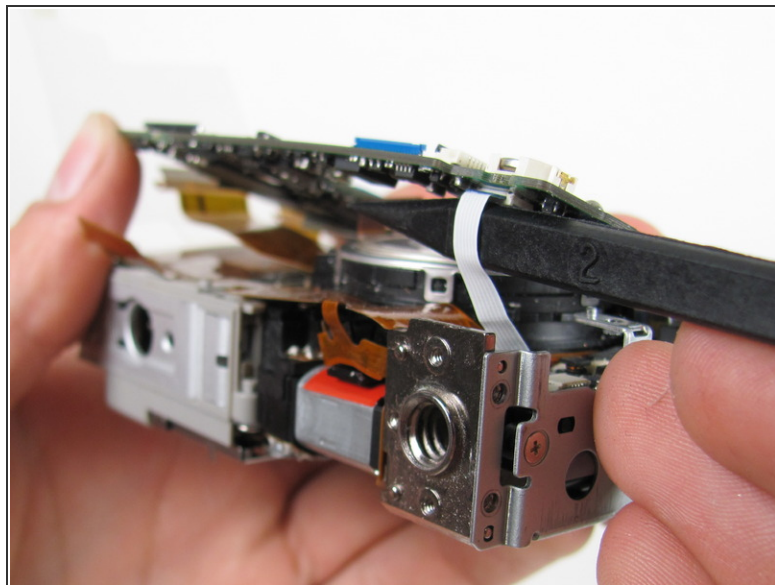
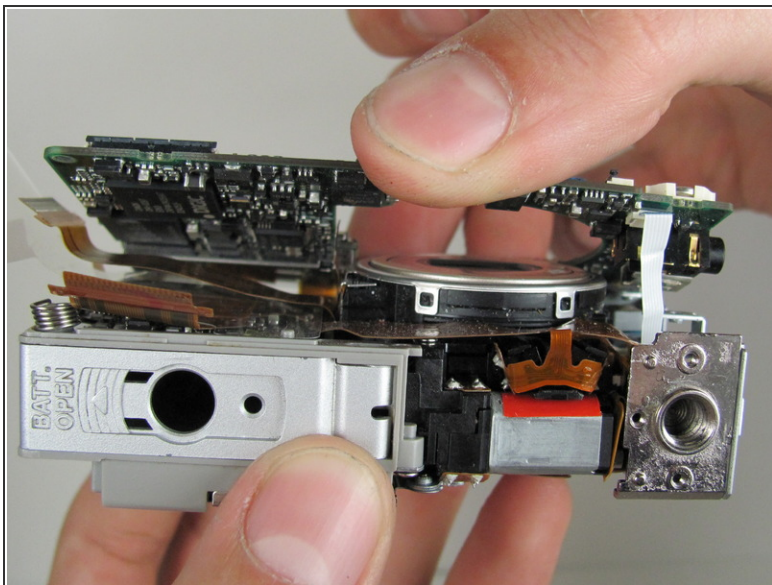
- Flip open the four ribbon gates using the Spudger.
- Gently pull out the ribbon cables from the gates using the Spudger.

Step 19



- Unscrew the four Phillips screws using a #0 Phillips screwdriver.

Step 20

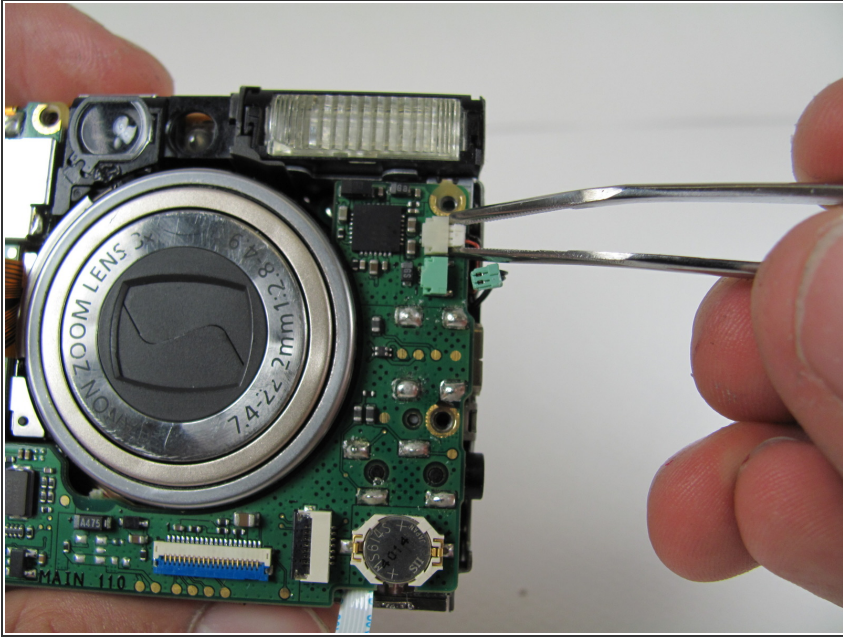


- Gently lift the the logic board.

⚠ Be careful not to pull too hard and damage the white ribbon cable.

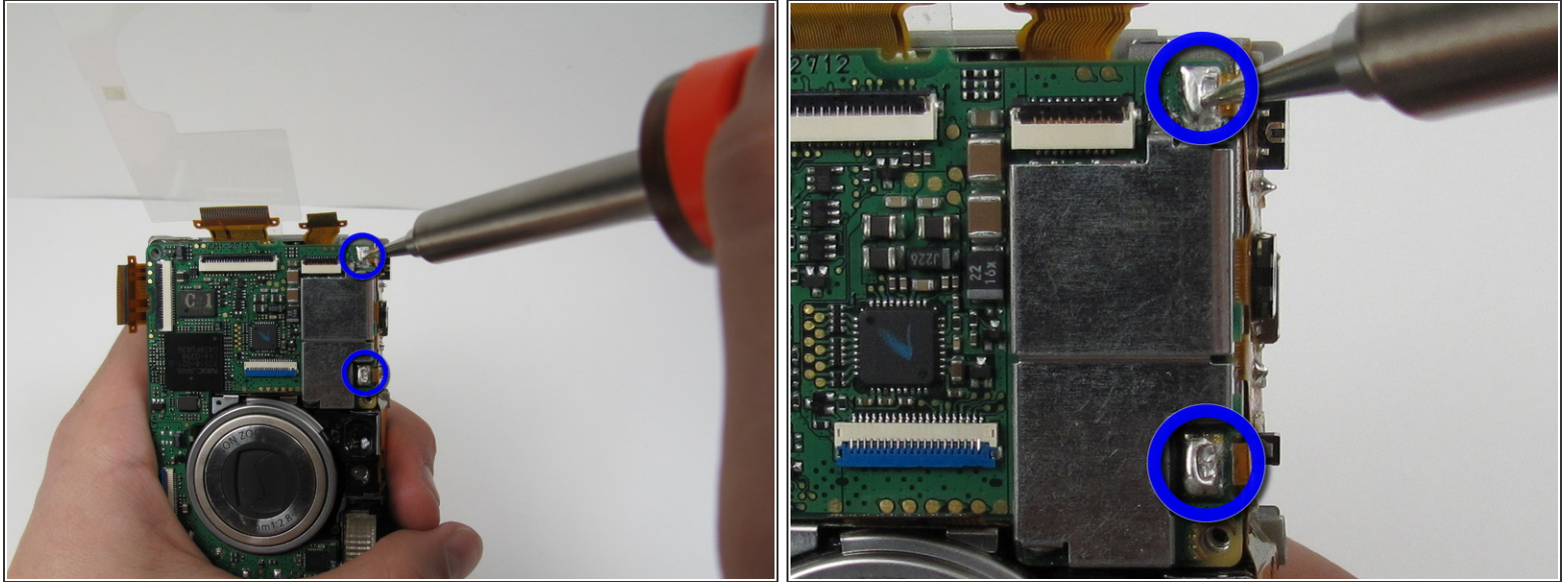
- Place the Spudger so that it is between the logic board, the white ribbon cable, and the rest of the camera.
- Remove the white ribbon cable by pulling the Spudger away from the camera, keeping it parallel to the logic board.

Step 21



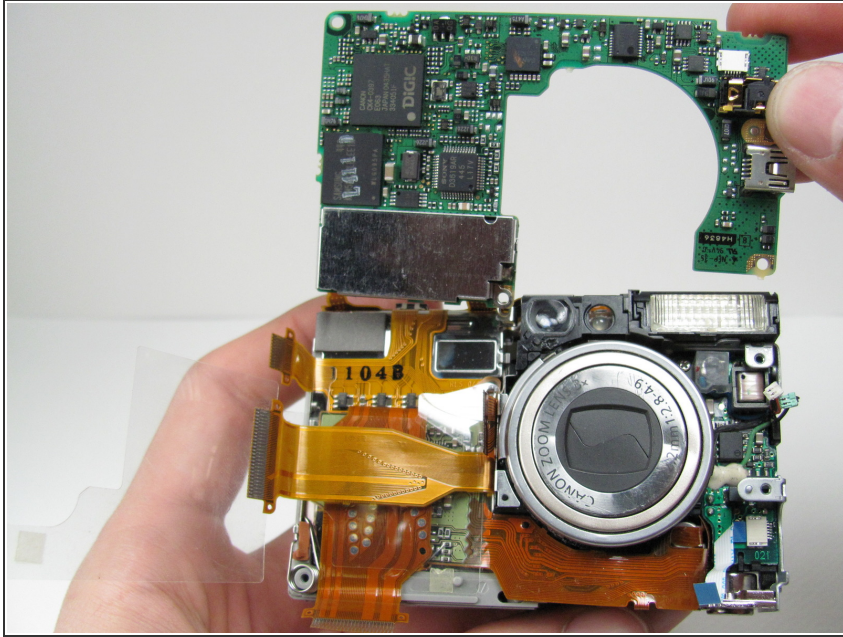
- Lay the logic board back down so that it is resting on the body of the camera.
- Pull the two plugs (white and green) out to the right from the logic board using the tweezers.

Step 22



- i** We're now ready to begin the desoldering process. You'll need a soldering iron, solder, and desoldering wick. You should be able to find these items at a Radio Shack if you don't already have them.
- !** Please do not perform this step if you are not comfortable or have previous experience with soldering. Doing so, could cause severe damage to your camera.
- Desolder the two soldered ribbon cables attached to the logic board.

Step 23



- Free the logic board from the rest of the camera.

To reassemble your device, follow these instructions in reverse order.

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